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defined as the process
where a piece of raw
material is cut and
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Machine learning (ML)
is a category of an
algorithm that allows
software applications to
become more accurate
in predicting outcomes

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without being explicitly programmed. The basic premise of machine learning is to build algorithms that can receive input data and use statistical analysis to predict an output while updating outputs as new data becomes available.

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~~A Complete
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algorithms to develop
predictive models and
automate several time-
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Introduction to Machine Learning with Python teaches you the basics of machine learning and provides a thorough hands-on understanding of the subject. You'll learn important machine learning concepts and algorithms, when to use them, and how to use them.

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About the Book: This book is an attempt to consolidate the basic scientific studies in the machining area so that fundamental mechanics and other concepts related to primary machining processes could be understood. The book is essentially

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Manufacturing for senior undergraduate mechanical and production engineering students but practicing engineers will also find it useful for tool and product design. The topics covered include plastic deformation, chip formation, tool geometry, mechanics of orthogonal and oblique cutting, measurement of

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Machining, cutting force, cutting temperature, tool wear and tool life, economics of machining, grinding of metals and machining vibrations. The analyses presented have been illustrated through numerical examples. Review questions and bibliography are also included. About the Author: Dr. G.K. Lal has been associated with

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the Indian Institute of Technology, Kanpur for the past 34 years. He retired as a Professor of Mechanical Engineering in 2003 and had earlier held the positions of Dean (1976-80) and Deputy Director (1982-88). Before joining IIT Kanpur he had taught at the Banaras Hindu University and held

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research positions at the University of Sherbrooke (Canada) and the Carnegie-Mellon University (USA). He also worked as a Design Engineer with the Abitibi Paper and Power Corp. of Canada.

Advanced Machining
Processes of Metallic
Materials: Theory,
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Modelling and
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metal cutting processes
with regard to theory
and industrial practice.
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parts, the first section
provides information on
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machining, while the
second and third parts
include an overview of
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Machining techniques, along with basic machining processes and their effective use in a wide range of manufacturing applications. The research covered here has contributed to a more generalized vision of machining technology, including not only traditional manufacturing tasks, but

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Presents metal cutting
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Includes an updated knowledge of standards, cutting tool materials and tools, new machining technologies, relevant machinability records, optimization techniques, and surface integrity

Metal machining is the most widespread metal-shaping process in the

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manufacturing industry. World-wide investment in metal machining tools increases year on year - and the wealth of nations can be judged by it. This text - the most up-to-date in the field - provides in-depth discussion of the theory and application of metal machining at an advanced level. It begins

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discussion of simulation
and process control.

"Metal Machining:

Theory and

Applications" is essential

reading for senior

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postgraduates

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technology. It is also an

invaluable reference tool

for professional

engineers. Professors

Childs, Maekawa,

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Obikawa and Yamane
are four of the leading
authorities on metal
machining and have
worked together for
many years. Of interest
to all mechanical,
manufacturing and
materials engineers
Theoretical and
practical problems
addressed

Materials Forming and
Page 51/75

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**Machining: Research
and Development**

publishes refereed, high quality articles with a special emphasis on research and development in forming materials, machining, and its applications. A large family of manufacturing processes are now involved in material formation, with plastic deformation and

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other techniques commonly used to change the shape of a workpiece. Materials forming techniques discussed in the book include extrusion, forging, rolling, drawing, sheet metal forming, microforming, hydroforming, thermoforming, and incremental forming, among others. In

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Machining, traditional machining, non-traditional machining, abrasive machining, hard part machining, high speed machining, high efficiency machining, and micromachining are also explored, proving that forming technologies and machining can be applied to a wide variety of materials. Presents

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manufacturing processes
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formation Includes
traditional and non-
traditional machining
methods Consists of
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development in forming
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Expanded and revised to include changes and additions to metal cutting theory. Covers developments in tool materials and industrial practice over the last seven years. Describes the stresses and temperatures acting on cutting tools and

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on performance.

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which determines
cutting efficiency.

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and control of tool
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advanced considerably along with new materials, computers and sensors. This new edition considers the scientific principles of metal cutting and their practical application to manufacturing problems. It begins with metal cutting mechanics, principles of vibration and experimental modal

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analysis applied to solving shop floor problems. There is in-depth coverage of chatter vibrations, a problem experienced daily by manufacturing engineers.

Programming, design and automation of CNC (computer numerical control) machine tools, NC (numerical control) programming and

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CAD/CAM technology are discussed. The text also covers the selection of drive actuators, feedback sensors, modelling and control of feed drives, the design of real time trajectory generation and interpolation algorithms and CNC-oriented error analysis in detail. Each chapter includes examples drawn from

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Tal

industry, design projects
and homework
problems. This is ideal
for advanced
undergraduate and
graduate students and
also practising
engineers.

This book draws upon
the science of tribology
to understand, predict
and improve abrasive
machining processes.

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Pulling together information on how abrasives work, the authors, who are renowned experts in abrasive technology, demonstrate how tribology can be applied as a tool to improve abrasive machining processes. Each of the main elements of the abrasive machining system are looked at,

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problems, such as poor accuracy, poor surface quality, rapid wheel wear, vibrations, work-piece burn and high process costs. This practical approach makes this book an essential tool for practicing engineers. Uses the science of tribology to improve understanding and of abrasive machining

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increase performance,
productivity and surface
quality of final products

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reference on how
abrasives work, covering
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Focusing mainly on
processes, tailoring
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coverage of both materials and systems. The emphasis on manufacturing science and mathematical modeling of processes is an important attribute of the new book. Real world/design case studies are also integrated with fundamentals - process videos provide students with a chance to

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experience being 'on the floor' in a manufacturing facility, followed by case studies that provide individual students or groups of students to dig into larger / more design-oriented problems.

Traditional Machining Technology describes the fundamentals, basic elements, and

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operations of general-purpose metal cutting and abrasive machine tools used for the production and grinding of cylindrical and flat surfaces by turning, drilling, and reaming; shaping and planing; and milling processes. Special-purpose machines and operations used for thread cutting, gear

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cutting, and broaching processes are included along with

semiautomatic, automatic, NC, and CNC machine tools; operations, tooling, mechanisms, accessories, jigs and fixtures, and machine-tool dynamometry are discussed. The treatment throughout the book is aimed at

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challenging the reader
to explore technologies
and economically viable
solutions regarding the
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machining operations
for a given task. This
book will be useful to
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Machining dynamics play an essential role in the performance of the machine tools and machining processes which directly affect the removal rate, workpiece surface quality and dimensional and form accuracy. Machining Dynamics:

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